

# 16x16 HD/SDI Router with AES Audio Follow

## Model 862-XL1616HD/2



- ◆ 16X16, HD/SDI Video, **AES Audio Follow**
- ◆ Local or Remote Control Panel
- ◆ AFV, breakaway, or X-Y Control
- ◆ Maximum of 256 Remote Panels
- ◆ RS-232 Serial Control, Standard

The 800 Series Routing Switchers are wide bandwidth vertical interval switchers designed for professional video production facilities. The compact design of Link's routing switchers makes them an essential part of any facility.

Packaged in a 19" rack mountable chassis, the switchers are supplied with a single front-loaded power supply. An optional redundant power supply is available. High quality front panel push buttons are used for selection of inputs and outputs.

Remote control panels are interconnected with standard Ethernet 10Base2 single coax connections. RS-232 is provided through a standard D-sub connector. Panels can be set to control a single output bus or the entire matrix.

The 863-1616HD is a high definition video router with AES audio follow, also supports SDI.

The Link Switcher's flexibility is unmatched in the industry. Modular construction offers unique flexibility to the user, and provides an easy means of adding additional features or upgrading to digital modules. Power supplies are accessible from the front of the unit and may be easily installed or removed. SDI switching may easily be converted to analog by adding field installable modules.

Industry standard BNC connectors are used for video inputs and removable 3-Pin connectors are used for stereo audio inputs and outputs.

Routers are available for analog video only, analog video with stereo audio follow, digital video only, and digital video with two-stream AES/EBU audio follow. (Note: the 32 x 32 router is available with SDI and HD/SDI switching.) The router is supplied with the local control panel with audio break-away.

The Link 862-XL1616HD SERIES routing system features:

- Modular Design – plug-in modules for video & audio. No active components on the frame.
- Two power supply slots are accessible from the front panel. One power supply is standard.
- A redundant power supply is available as an option.
- Detachable X-Y front panel control with Ethernet 10Base2 coax connection.
- AES Audio follow video.
- RS-232 control standard.

### Remote Mounting Kits for Control Panels

The supplied control panel for all switchers is shipped installed into the front of the main electronics chassis. The control panel can be removed from the electronics chassis in the field and installed into a remote mounting kit. The mounting kit hardware includes rack-mounting hardware for the control panel, a blank panel(s) that is installed onto the front of the electronics chassis, and a power supply. Order the appropriate rack mounting kit from the list below:

### Model Selection

<b>862-XL1616HD1</b>	16 x 16 Analog Video Only Routing Switcher	One
<b>862-XL1616HD3</b>	16 x 16 Analog Video Routing Switcher with Stereo Audio Follow Video	One
<b>862-XL1616HD2</b>	16 x 16 Analog Video Routing Switcher with AES Audio Follow Video	One

# SPECIFICATIONS

## MODEL 862-XL1616HD/2

### HD/SDI VIDEO INPUT:

Data Rate: . . . . . 143Mbps, 177Mbps, 270,Mbps 360Mbps, 540Mbps  
 Data Type: . . . . . SMPTE 259M, SMPTE 292M, SMPTE 344M, DVB-ASI  
 Number: . . . . . 16  
 Input Cable Equalization: . . . . . Automatic up to 300 meters@270 Mbps, 100 meters @ 1.485Gbps  
 Video Level: . . . . . 800 mV  
 Impedance: . . . . . 75 $\Omega$  Looping  
 Coupling: . . . . . AC  
 Connector: . . . . . BNC  
 Return Loss: . . . . . 15 dB @ 400mbps

### AES AUDIO INPUT:

Connector Type: . . . . . 110 Ohms balanced, AC coupled; Weco, 3-Pin Disconnect  
 Impedance: . . . . . 20K $\Omega$   
 Level: . . . . . 0.5 to 10 V p-p  
 CMR: . . . . .  $\pm$ 25 V

### HD/SDI VIDEO OUTPUTS:

Number: . . . . . 16  
 Connector: . . . . . BNC  
 Level: . . . . . 800 mV  
 Character Video: . . . . . 90 IRE Units  
 Return Loss: . . . . . 12 dB @ 400 mbps  
 Jitter: . . . . . 600ps to 360mbps  
 Impedance: . . . . . 75 $\Omega$   $\pm$ 1%  
 Vertical Interval Switching: . . . . . Line 6  
 Differential Gain: . . . . . 0.10%, 10% to 90% APL  
 Differential Phase: . . . . . 0.10 $^\circ$ , 10% to 90% APL  
 Crosstalk: . . . . . 62dB to 5 MHz, worse case  
 Propagation Delay: . . . . . 5 nS, typical  
 Hum and Noise: . . . . . >60dB to 5 Hz  
 Line Rate Tilt: . . . . . <0.1%  
 Field Rate Tilt: . . . . . <0.1%  
 SNR: . . . . . -73dB

### AES AUDIO OUTPUTS:

Signal Type: . . . . . Balanced 110 Ohms , AC coupled  
 Connector Type: . . . . . Weco, 3-Pin Disconnect  
 Impedance: . . . . . 110 Ohms  
 Level: . . . . . 4 V p-p  
 Jitter: . . . . .  $\pm$ 0.5ns p-p (+input jitter)

### ENVIRONMENTAL:

Temperature: . . . . . 0 $^\circ$  to 50 $^\circ$  C ambient  
 Humidity: . . . . . 10%/90% non-condensing  
 Power: . . . . . 9.5 VAR  
 AC Voltage: . . . . . 120/240 VAC $\pm$ 10%, 50/60Hz

### MECHANICAL:

Height: . . . . . 1.75 inches  
 Width: . . . . . 19 inches  
 Depth: . . . . . 9.25 inches  
 Weight: . . . . . 9lbs

